Listing of the Claims:

- 1. (Original) A method for quantitative and qualitative determination of human papillomavirus (HPV) in a sample comprising the steps of:
- i) providing a sample from a patient suspected to be infected by HPV, and optionally extracting the nucleic acid of the sample;
- ii) dividing the sample or nucleic acid from the sample in two or more sub-
- iii) measuring, simultaneously, the presence and amount of two or more viruses in one of said sub-samples by using a specific primer for amplification of each virus or group of viruses, whereby the primers are designed not to compete during the amplification-reaction, and a specific probe for each virus or group of viruses, whereby the probes are designed not to compete during the amplification-reaction and the detection phase;
- iv) determining the amount of said sample by analysis of a nuclear gene in a given amount of another of said sub-samples in a separate amplification reaction; and
- v) calculating the amount of each virus or group of viruses per amount of sample from the results of steps iii) and iv).
- 2. (Original) A method according to claim 1, wherein the amplifications in steps iii) and iv) are PCR amplification.
- 3. (Previously Presented) A method according to claim 1, which is a PCR-based fluorescent 5' exonuclease assay.

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- 4. (Previously Presented) A method according to claim 1, wherein the viruses in step iii) are selected from the group consisting of HPV 16, 18, 31, 33, 35, 39, 45, 52, and 58.
- 5. (Previously Presented) A method according to claim 1, wherein HPV 16, 31, 18, 45 is detected and quantified in one sub-sample and optionally HPV 33, 35, 39, 52, and 58 is detected and quantified in another sub-sample.
- 6. (Previously Presented) A method according to claim 1, wherein the amount of a human single copy gene is detected and quantified in step iv).
- 7. (Original) A method according to claim 6, wherein the gene is HUMPBGDA, Homo sapiens hydroxymethylbilane synthase gene, accnr M95623.1.
- 8. (Previously Presented) A method according to claim 1, which is for detection and diagnose of cervical cancer.
- 9. (Currently Amended) A kit for detection and quantification of human papillomavirus, comprising a) the seven amplification primers SEQ ID NO:1, SEQ ID NO:2, SEQ ID NO:3, SEQ ID NO:4, SEQ ID NO:5/SEQ ID NO:6, SEQ ID NO:7 and SEQ ID NO:8, and the three probes SEQ ID NO:21, SEQ ID NO:22 and SEQ ID NO:23/SEQ ID NO:24, for HPV 16, 31, 18, 45-according to Table 1 and 2 of the specification; and optionally b) eight the amplification primers SEQ ID NO:9, SEQ ID NO:10, SEQ ID NO:11, SEQ ID NO:12, SEQ ID NO:13/SEQ ID NO:14, SEQ ID NO:15, SEQ ID NO:16 and SEQ ID

NO:17/SEQ ID NO:18 and three the probes SEQ ID NO:25, SEQ ID NO:26 and SEQ ID NO:27/SEQ ID NO:28/SEQ ID NO:29 for HPV 33, 35, 39, 52, and 58, according to Table 1 and 2 of the specification.

- 10. (Currently Amended) A kit according to claim 9, further comprising c) the two amplification primers SEQ ID NO:19 and SEQ ID NO:20 and the one probe SEQ ID NO:30, according to Table 1 and 2 of the specification, for detection and quantification of the amount of a human single copy gene.
- 11. (Original) A kit according to claim 10, wherein the gene is HUMPBGDA, Homo sapiens hydroxymethylbilane synthase gene, accnr M95623.1.
- 12. (Previously Presented) A kit according to claim 9, further comprising d) at least two different fluorophores.
- 13. (Currently Amended) A kit according to claim 10 9, further comprising a) seven amplification primers and three probes for HPV 16, 31, 18, 45 according to Table 1 and 2 of the specification; b) eight amplification primers and three probes for HPV 33, 35, 39, 52, and 58, according to Table 1 and 2 of the specification; c) two amplification primers and one probe, according to Table 1 and 2 of the specification, for detection and quantification of the amount of a human single copy gene; and d) three different fluorophores.

- 14. (Previously Presented) A kit according to claim 9 for detection and diagnose of cervical cancer.
- 15. (Previously Presented) A method according to claim 2, which is a PCR-based fluorescent 5' exonuclease assay.
- 16. (Previously Presented) A method according to claim 2, wherein the viruses in step iii) are selected from the group consisting of HPV 16, 18, 31, 33, 35, 39, 45, 52, and 58.
- 17. (Previously Presented) A method according to claim 3, wherein the viruses in step iii) are selected from the group consisting of HPV 16, 18, 31, 33, 35, 39, 45, 52, and 58.
- 18. (Previously Presented) A kit according to claim 10, further comprising d) at least two different fluorophores.
- 19. (Previously Presented) A kit according to claim 11, further comprising d) at least two different fluorophores.
- 20. (Previously Presented) A kit according to claim 11 for detection and diagnose of cervical cancer.